t46_modelc_3 (TMZBE6rX7C3puLRFzRyMVUa54z2xiMCButV)

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Let $v1\_modelc\_2 : \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k25\_modelc\_2 : \iota \Rightarrow \iota$ be given. Let $k43\_modelc\_2 : \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k22\_modelc\_3 : \iota \Rightarrow \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r7\_modelc\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r8\_modelc\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $r8\_modelc\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k14\_modelc\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10\_modelc\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3\_modelc\_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r4\_modelc\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v1\_modelc\_2\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k25\_modelc\_2\ k43\_modelc\_2)) \Rightarrow (\forall X2.((v1\_relat\_1\ X2) \wedge (v1\_funct\_1\ X2)) \Rightarrow ((r8\_modelc\_3\ X0\ X1\ X2) \Leftrightarrow (\forall X3.((X3 \in k22\_modelc\_3\ X0) \wedge (r8\_modelc\_2\ X1\ (k14\_modelc\_3\ X0\ (k10\_modelc\_3\ X3\ X0)))) \Rightarrow ((v3\_modelc\_3\ (k10\_modelc\_3\ X3\ X0)\ X0) \vee (r8\_modelc\_2\ X1\ (k14\_modelc\_3\ X0\ (k10\_modelc\_3\ (k1\_funct\_1\ X2\ X3)\ X0)))))))) \tag{1}$$

Assume the following.

$$\forall X0.((v1\_modelc\_2\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k25\_modelc\_2\ k43\_modelc\_2)) \Rightarrow (\forall X2.((v1\_relat\_1\ X2) \wedge (v1\_funct\_1\ X2)) \Rightarrow ((r7\_modelc\_3\ X0\ X1\ X2) \Leftrightarrow (\forall X3.((X3 \in k22\_modelc\_3\ X0) \wedge (r8\_modelc\_2\ X1\ (k14\_modelc\_3\ X0\ (k10\_modelc\_3\ X3\ X0)))) \Rightarrow ((v3\_modelc\_3\ (k10\_modelc\_3\ X3\ X0)\ X0) \vee ((r4\_modelc\_3\ X0\ (k10\_modelc\_3\ X3\ X0)\ (k10\_modelc\_3\ (k1\_funct\_1\ X2\ X3)\ X0)) \wedge (r8\_modelc\_2\ X1\ (k14\_modelc\_3\ X0\ (k10\_modelc\_3\ (k1\_funct\_1\ X2\ X3)\ X0))))))))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1))) \Rightarrow (v1\_relat\_1\ X2) \tag{3}$$

Theorem 1

$$\forall X0.((v1\_modelc\_2\ X0)\wedge(m2\_finseq\_1\ X0\ k5\_numbers))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k25\_modelc\_2\ k43\_modelc\_2))\Rightarrow(\forall X2.((v1\_funct\_1\ X2)\wedge((v1\_funct\_2\ X2\ (k22\_modelc\_3\ X0)\ (k22\_modelc\_3\ X0))\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k22\_modelc\_3\ X0)\ (k22\_modelc\_3\ X0))))))\Rightarrow((r7\_modelc\_3\ X0\ X1\ X2)\Rightarrow(r8\_modelc\_3\ X0\ X1\ X2))))$$